



MAJOR SOURCE OPERATING PERMIT

PERMITTEE: HUNTSMAN ADVANCED MATERIALS

FACILITY NAME: MCINTOSH FACILITY

FACILITY/PERMIT NO.: 108-0022

LOCATION: MCINTOSH, WASHINGTON, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: DRAFT

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General Permit Provisos

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	Rule 335-3-16-.02(6)
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	Rule 335-3-16-.12(2)
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	Rule 335-3-16-.05(e)
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	Rule 335-3-16-.05(f) Rule 335-3-16-.05(g)

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	Rule 335-3-16-.07(b)

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<ul style="list-style-type: none"> (a) Enter upon the permittee’s premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility’s equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	Rule 335-3-16-.07(c)
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually by May 12th of each year, unless more frequent periods are specified according to the specific rule governing the source or required by the Department.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) or other means used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recording Keeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; 	Rule 335-3-16-.07(e)

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- (b) The compliance certification shall be submitted to:

Alabama Department of Environmental Management
Air Division
P.O. Box 301463
Montgomery, AL 36130-1463

and to:

Enforcement and Compliance Assurance Division
EPA Region IV
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303

13. Reopening for Cause

Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:

- (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.
- (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.
- (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

Rule 335-3-16-.13(5)

14. Additional Rules and Regulations

This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.

§22-28-16(d), Code of Alabama 1975, as amended

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<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down shall be reported to the Department at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none">(1) Identification of the specific facility to be taken out of service as well as its location and permit number;(2) The expected length of time that the air pollution control equipment will be out of service;(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.</p>	<p>Rule 335-3-1-.07(1),(2)</p>
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>

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<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	Rule 335-3-1-.08
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne:</p> <ol style="list-style-type: none"> (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; or (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; or (3) By paving; or (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; or (5) By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface. 	Rule 335-3-4-.02
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	Rule 335-3-16-.13 and .14
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ol style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; 	Rule 335-3-16-.05(c)2.

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- (5) The results of all analyses; and
 - (6) The operating conditions that existed at the time of sampling or measurement.
- (b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.

21. Reporting Requirements

- (a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).
- (b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.

Rule 335-3-16-.05(c)(3)

22. Emission Testing Requirements

Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.

Rule 335-3-1-.05(3) and
Rule 335-3-1-.04(1)

The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.

To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:

- (a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.

Rule 335-3-1-.04

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<p>(b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).</p> <p>(c) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code r. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p>	<p>Rule 335-3-16-.05(a)</p>

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The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.

26. Chemical Accidental Prevention Provisions

If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:

40 CFR Part 68

- (a) The owner or operator shall comply with the provisions in 40 CFR Part 68.
- (b) The owner or operator shall submit one of the following:
 - (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,
 - (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.

27. Display of Permit

This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.

Rule 335-3-14-.01(1)(d)

28. Circumvention

No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.

Rule 335-3-1-.10

29. Visible Emissions

Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.

Rule 335-3-4-.01(1)

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<p>30. <u>Fuel-Burning Equipment</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03(1).</p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03(1)</p> <p>Rule 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. <u>Permit Shield</u></p> <p>A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in Section 3 of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.</p>	<p>Rule 335-3-16-.10</p>
<p>34. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) <u>Operation of Approved Monitoring</u></p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p>	<p>40 CFR 64.7</p>

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- (2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (4) Response to excursions or exceedances.
 - (A) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

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- (B) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
- (b) Quality Improvement Plan (QIP) Requirements**
- (1) Based on the results of a determination made under Section 34(a)(4)(B) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.
- (2) Elements of a QIP:
- (A) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.

40 CFR 64.8

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- (B) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
 - (i) Improved preventive maintenance practices.
 - (ii) Process operation changes.
 - (iii) Appropriate improvements to control methods.
 - (iv) Other steps appropriate to correct control performance.
 - (v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(B)(i) through (iv) above).
- (3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 34(a)(4)(B) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:
 - (A) Failed to address the cause of the control device performance problems; or
 - (B) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

Basic Liquid Resins Unit, Area 12

Informational Summary

Description: Basic Liquid Resins Unit with Five Baghouses and a Scrubber

Emission Unit: 001

This unit contains equipment that is subject to the following NSPS's, NESHAP's, or MACT's:

40 CFR Part 63, Subpart W

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
12BLR-EP-01	Baghouses	PM	3.0 lb/ hr (combined)	335-3-14-.04
12BLR-EP-02				
12BLR-EP-03				
12BLR-EP-04E				
12BLR-EP-04S				
12BLR-EP-09	Process Vent Scrubber	HAP	130 lbs HAP total/MM lbs BLR produced	335-3-11-.06(22)
12BLR-EP-01	See Above	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity of greater than 40%	335-3-4-.01
12BLR-EP-02				
12BLR-EP-03				
12BLR-EP-04E				
12BLR-EP-04S				
12BLR-EP-01	See Above	PM	$E=3.59P^{0.62}$	335-3-4-.04
12BLR-EP-02				
12BLR-EP-03				
12BLR-EP-04E				
12BLR-EP-04S				
	BLR Unit	HAP	HON, Subpart H LDAR Program	335-3-11-.06(7) 335-3-11-.06(22)

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<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Control of Particulate Emissions: Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. This source is subject to the requirements of 40 CFR Part 63, Subpart W, National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-Nylon Polyamides Production.	ADEM Admin. Code r. 335-3-11-.06(22)
4. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart W.	ADEM Admin. Code r. 335-3-11-.06(1)
5. As required by 40 CFR Part 63, Subpart W, this unit is required to follow the LDAR program set forth in 40 CFR Part 63, Subpart H – National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks. (40 CFR 63.523(c)).	ADEM Admin. Code r. 335-3-11-.06(22)
6. This source is subject to synthetic minor PSD emission limitations for particulate matter (PM).	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. Any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. In order to avoid PSD review, the particulate matter (PM) emissions from 12BLR-EP-01, 12BLREP-02, 12BLREP-03, 12BLREP-04E, and 12BLREP-04S shall not exceed 3.0 lb/hr combined as calculated on a 3-hour average and determined by Method 5 as listed in Appendix A of 40 CFR Part 60.	ADEM Admin. Code r. 335-3-14-.04
3. All equipment and streams containing epichlorohydrin must be vented to the scrubber (12BLR-EP-09).	ADEM Admin. Code r. 335-3-14-.01
4. When this unit produces Diglycidyl Ether of Bisphenol A (DGEBPA), it must operate such that HAP emissions do not exceed 130 lbs. per million pounds produced as required by §63.523 of 40 CFR Part 63, Subpart W.	ADEM Admin. Code r. 335-3-11-.02(22)

Basic Liquid Resins Unit, Area 12 Provisos

Federally Enforceable Provisos	Regulations
<p>5. The process vent scrubber, 12BLREP-09, shall be operated in such a manner that the HAP emissions are reduced below 130 lb HAP/MMlb of BLR produced as stated in §63.523(a) of 40 CFR Part 63, Subpart W.</p>	<p>ADEM Admin. Code r. 335-3-11-.02(22)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p>	
<p>1. Compliance with the opacity requirements in this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-10-.03</p>
<p>2. Compliance with the particulate matter (PM) emission rate shall be determined by Reference Method 5 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-10-.03</p>
<p>3. Compliance with the hazardous air pollutant (HAP) emission rate shall be determined by Reference Method 18 and/or 25A in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-10-.03</p>
<p>4. Compliance with the Leak Detection and Repair program shall be determined by Reference Method 21 in Appendix A of 40 CFR Part 60.</p>	<p>ADEM Admin. Code r. 335-3-10-.03</p>
<p>5. The test methods and procedures for the leak detection and repair (LDAR) program as listed in 63.180 of 40 CFR Part 63, Subpart H shall be followed, as applicable.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(7)</p>

Basic Liquid Resins Unit, Area 12 Provisos

Federally Enforceable Provisos	Regulations
<i>Emission Monitoring</i>	
<p>1. The facility shall monitor the differential pressure across a final police filter for each of the emissions points 12BLREP-01, 12BLREP02, 12BLREP-03, 12BLREP-04E, and 12BLREP-04S while the equipment associated with these points is in operation. A significant increase or decrease in pressure (99% of the instrument's range) indicates potential failure in the primary baghouse filter. The facility shall initiate corrective action within 24 hours. The facility may choose to inspect these emission points for the presence of visible emissions on days when one of the continuous monitoring systems (CMS) components is malfunctioning. If any visible emissions are noted from these points, either during inspections or at any other time, the facility shall initiate corrective action(s) within 24 hours.</p>	<p>ADEM Admin. Code r. 335-3-16-.05</p>
<p>2. The facility shall maintain a minimum scrubber flow rate as determined by compliance testing, which must be measured and recorded every 15 minutes. This source shall be considered out of compliance if the scrubber flowrate is below the minimum, averaged over any continuous 24-hour period. (40 CFR 63.526(a)). Periods of time when the flowrate falls below the required minimum do not constitute a violation if they occur during a start-up, shutdown, or malfunction, and the facility follows the SSMP (63.526(c)).</p>	<p>ADEM Admin. Code r. 335-3-11-.06(22)</p>
<p>3. As stated in §63.523 of 40 CFR Part 63, Subpart W, a leak detection and repair (LDAR) program shall be implemented for all applicable equipment in this source in accordance with the requirements of 63.162 – 63.179 as listed in 40 CFR Part 63, Subpart H.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(22)</p>
<i>Recordkeeping and Reporting Requirements</i>	
<p>1. When visual inspections are utilized, the facility shall maintain records of the visual inspections of emission points 12BLREP-01, 12BLREP-02, 12BLREP-03, 12BLREP-04E, and 12BLREP-04S. These records, which may be kept in the form of a log or checklist, shall be kept in a form suitable for inspection for a period of five (5) years. The presence of any visible emissions from any of these points shall be recorded and reported during the semiannual report. The facility shall keep the records of the corrective action(s) taken in the event visible emissions are observed.</p>	<p>ADEM Admin. Code r. 335-3-16-.05</p>

Basic Liquid Resins Unit, Area 12 Provisos

Federally Enforceable Provisos	Regulations
<p>2. When differential pressure measurements of emission points 12BLREP-01, 12BLREP-02, 12BLREP-03, 12BLREP-04E and 12BLREP-04S are utilized, the differential pressure across each final filter shall be continuously monitoring and recorded at least once every 15 minutes, and shall be averaged over a 1-hour period by devices that shall be properly installed, operated, and maintained.</p>	<p>ADEM Admin. Code r. 335-3-16-.05</p>
<p>3. The facility shall maintain records of the daily average scrubber flowrate for emission point 12BLR-EP-09. The records, which may be in the form of a log or a checklist, shall be kept up-to-date, readily accessible, and in a form suitable for inspection for five years. If the scrubber water flowrate falls below the rate established by compliance testing, averaged over any continuous 24-hour period while in operation, it shall be recorded and reported during the semi-annual report. (40 CFR 63.527(a)(1)) In the event of an excursion, the owner or operator must keep records of each 15-minute reading during the period in which the excursion occurred. (40 CFR 63.527(a)(3)).</p>	<p>ADEM Admin. Code r. 335-3-11-.06(22)</p>
<p>4. As indicated in §§63.527(d) and 63.528(b), the recordkeeping and reporting requirements of 40 CFR Part 63, Subpart H, shall be followed, as applicable. All records and reports shall be retained for a period of 5 years, in accordance with §63.10(b)(1).</p>	<p>ADEM Admin. Code r. 335-3-11-.06(22) 335-3-11-.06(7)</p>
<p>5. This facility shall submit excess emissions reports as per the schedule listed in §63.10(e)(3). The report shall contain the information listed in §63.528(a).</p>	<p>ADEM Admin. Code r. 335-3-11-.06(1)</p>

Waterborne Resins Unit, Area 12

Informational Summary

Description: Waterborne Resins Unit, Process Area 12, Production of Waterborne Resins, Surfactants, and Resin Solutions – 12 MM lbs/yr, with one Baghouse, Area 19 Process Vapor Control System, and Common Scrubber Associated with the BLR Unit.

Emission Unit: 002

This unit contains equipment that is subject to the following NSPS's, NESHAP's, or MACT's:

40 CFR Part 63, Subpart FFFF

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
12WBU-BH-6	Charge Hopper	PM	2.4 lb/hr	335-3-14-.04
12WBU-EP-08	Emergency Flare	N/A	N/A	N/A
12WBU-EP-09	BLR Process Vent Scrubber	N/A	N/A	N/A
12WBU-EP-11	Thermal Oxidizer with Scrubber	OHAP	98% DRE or 20 ppmv	335-3-11-.06(83)
12WBU-EP-11	See Above	Hydrogen Halide/Halogen HAP	99% DRE or 20 ppmv	335-3-11-.06(83)
12WBU-BH-6, 12WBU-EP-08, 12WBU-EP-09, and 12WBU-EP-11	See Above	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity of greater than 40%	335-3-4-.01
12WBU-BH-6	See Above	PM	$E=3.59P^{0.62}$	335-3-4-.04
	WBU Unit	HAP	HON, Subpart H LDAR Program	335-3-11-.06(7) 335-3-11-.06(83)

Waterborne Resins Unit, Area 12 Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Control of Particulate Emissions: Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. This source is subject to the requirements of 40 CFR Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (“MON”).	ADEM Admin. Code r. 335-3-11-.06(83)
4. This source is subject to the requirements of 40 CFR Part 63, Subpart A, the General Provisions, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.	ADEM Admin. Code r. 335-3-11-.06(1)
5. This source is subject to synthetic minor PSD emission limitations for particulate matter (PM).	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. Any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. In order to avoid PSD review, the particulate matter (PM) emission rate from the 12WBU-BH-6 shall not exceed 2.4 lb/hr.	ADEM Admin. Code r. 335-3-14-.04
3. The esterification reactors shall vent to the thermal oxidizer associated with Area 19, emission point 12WBU-EP-11.	ADEM Admin. Code r. 335-3-14-.04
4. When the thermal oxidizer is not operating, the unit shall vent to the flare, emission point 12WBU-EP-08.	ADEM Admin. Code r. 335-3-14-.04
5. When neither the thermal oxidizer nor the flare is operating, this unit shall use the existing scrubber emission point 12WBU-EP-09 as its primary control device.	ADEM Admin. Code r. 335-3-11-.06(83)
6. As indicated in 63.2464(a) and Table 2 of 40 CFR Part 63, Subpart FFFF for Group 1 batch process vents, the collective uncontrolled organic HAP emissions from the sum of all batch process vents shall be reduced by greater than or equal to 98 percent by weight or less than or equal to 20 ppmv (measured as TOC or total organic HAP if using concentration).	ADEM Admin. Code r. 335-3-11-.06(83)

Waterborne Resins Unit, Area 12 Provisos

Federally Enforceable Provisos	Regulations
7. As indicated in §63.2465(a) and Table 3 of 40 CFR Part 63, Subpart FFFF for a process with uncontrolled hydrogen halide and halogen HAP emissions from process vents $\geq 1,000$ lb/yr, the collective hydrogen halide and halogen HAP emissions shall be reduced by greater than 99 percent by weight or to an outlet concentration less than or equal to 20 ppmv.	ADEM Admin. Code r. 335-3-11-.06(83)
8. As stated in §63.2480 and Table 6 of 40 CFR Part 63, Subpart FFFF, a leak detection and repair (LDAR) program equivalent to the requirements of 40 CFR Part 63, Subpart H shall be followed for all applicable equipment in organic HAP service.	ADEM Admin. Code r. 335-3-11-.06(83)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity requirements in this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-1-.05
2. Compliance with the particulate matter (PM) emission rate shall be determined by Reference Method 5 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-1-.05
3. Compliance with the organic hazardous air pollutant (HAP) emission rate shall be determined by Reference Method 18 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-1-.05
4. The test methods and procedures for the leak detection and repair (LDAR) program as listed in 63.180 of 40 CFR Part 63, Subpart H shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(7)
<i>Emission Monitoring</i>	
1. Emission point 12WBU BH-6 shall be inspected for the presence of visible emissions on a weekly basis while the unit is in operation. If any visible emissions are observed, corrective action(s) shall be taken within 24 hours of discovery.	ADEM Admin. Code r. 335-3-16-.05
2. When the waterborne resins unit, Area 12 is operating and the Area 19 process vapor control system is venting to the thermal oxidizer, the Area 19 thermal oxidizer firebox temperature, scrubber flow rate, and scrubber pH shall be monitored as specified in the Area 19 Specialty Polymers Unit.	ADEM Admin. Code r. 335-3-16-.05

Waterborne Resins Unit, Area 12 Provisos

Federally Enforceable Provisos	Regulations
3. A heat sensing device at the pilot light of the flare must be installed, calibrated, maintained, and operated according to the manufacturer's specifications, to indicate the continuous presence of a flame when the Area 19 process vapor control system is venting to the flare.	ADEM Admin. Code r. 335-3-16-.05
4. A vent flow indicator shall be installed at the flare and shall operate according to the manufacturer's specifications when the Area 19 process vapor control system is venting to the flare.	ADEM Admin. Code r. 335-3-16-.05
5. The monitoring requirements of the leak detection and repair (LDAR) program of 40 CFR Part 63, Subpart H, as listed in §63.160 through §63.183 shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(83)
<i>Recordkeeping and Reporting Requirements</i>	
1. Records of the visual inspections of the BPA charge hopper (emission point 12WBU BH-6) shall be maintained and readily available for inspection for a period of five (5) years. The presence of any visible emissions shall be recorded and reported during the semiannual report.	ADEM Admin. Code r. 335-3-14-.04
2. Records of the scrubber flow rate for the process vent scrubber (12WBU-EP-09) calculated as a daily average shall be maintained and readily available for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-14-.04
3. Records of the burner temperature, water flow to the scrubber, and pH of the scrubber effluent for the Area 19 thermal oxidizer with scrubber (emission point 12WBU-EP-11) shall be maintained in a form suitable for inspection for a period of five (5) years.	ADEM Admin. Code r. 335-3-11-.06
4. Records of any time that the esterification reactors are in operation and the thermal oxidizer with scrubber (emission point 12WBU-EP-11) is not operating shall be maintained and readily available for inspection for a period of five (5) years. The records shall consist of the time, duration, and cause of the outage as well as the corrective action(s) taken. The occurrence(s) of such an event shall be reported during the semiannual report.	ADEM Admin. Code r. 335-3-11-.06(22) 335-3-11-.06(7)
5. The recordkeeping and reporting requirements of 40 CFR Part 63, Subpart H, as listed in §63.181 and §63.182 shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(83)

Specialty Polymers Unit, Area 19

Informational Summary

Description: Specialty Polymers, Area 19

Emission Unit: 003

This unit contains equipment that is subject to the following NSPS's, NESHAP's, or MACT's:

40 CFR Part 63, Subpart FFFF

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
19-EP-01	Charge Station	PM	$E=3.59P^{0.62}$	335-3-4-.04
19-EP-05	Solid Packaging			
19-EP-17	Packaging Area			
19-EP-18	BPA Dust Collector			
19-EP-20	BPA Weight Hopper			
19-EP-27	Super Sack Charge Station Weight Hopper			
19-EP-28	Super Sack Charge Station Weight Hopper			
19-EP-33	Emergency Flare	TOC/OHAP	63.11(b)	335-3-11-.06(83) 335-3-14-.04
19-EP-35	Thermal Oxidizer with Scrubber	TOC/OHAP	99.5% DRE or an outlet concentration of less than or equal to 20 ppmv as TOC or total OHAP	335-3-11-.06(83) 335-3-14-.04
19-EP-35	Thermal Oxidizer with Scrubber	Halogen HAP	99.0% DRE for halogens or an outlet concentration of less than or equal to 20 ppmv or less than or equal 0.45 kg/hr	335-3-11-.06(83) 335-3-14-.04
19-V-131	Process Vessels	Wastewater HAP	Reduce HAP concentration within the stream to meet the required mass removal specified in §63.138(f) or to 50 ppmw before discharging wastewater for further processing	335-3-11-.06(83)
19-V668				
19-V-1311A				
19-V-1311B				
19-EP-01	See Above	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity of greater than 40%	335-3-4-.01
19-EP-05				
19-EP-17				
19-EP-18				
19-EP-20				
19-EP-27				
19-EP-28				
19-EP-33				
19-EP-35				

Specialty Polymers Unit, Area 19 Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Control of Particulate Emissions: Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. This source is subject to the requirements of 40 CFR Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (“MON”).	ADEM Admin. Code r. 335-3-11-.06(83)
4. This source is subject to the requirements of 40 CFR Part 63, Subpart A, the General Provisions, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.	ADEM Admin. Code r. 335-3-11-.06(1)
5. This source is subject to synthetic minor PSD emission limitations.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. Any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. The particulate emissions from this source shall not exceed the amount based on the following equation: $E = 3.59P^{0.62}$ Where, E = Emissions in lb/hr P = Process weight in tons per hour (TPH) (P ≤ 30 TPH)	ADEM Admin. Code r. 335-3-4-.03
3. The emissions from the batch process vents shall be routed to the thermal oxidizer with scrubber for control.	ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04
4. In order to remain a synthetic minor source with respect to PSD, emissions of volatile organic compounds (VOC) from the process vents shall be reduced to 99.5% or an outlet concentration of 20 ppmv (measured as TOC or total organic HAP when using concentration).	ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04

Specialty Polymers Unit, Area 19 Provisos

Federally Enforceable Provisos	Regulations
5. Emissions of halogens from Group 1 halogenated batch process vents shall be reduced by greater than or equal to 99%, less than or equal to 0.45 kg/hr, or to an overall outlet concentration of less than or equal to 20 ppmv.	ADEM Admin. Code r. 335-3-11-.06(83)
6. The batch process vents associated with this source shall only be routed to the flare during startup, shutdown, and/or malfunctions as outlined in the facility's startup, shutdown, and malfunction plan (SSMP).	ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04
7. In accordance with §63.2485 and Table 7 of 40 CFR Part 63, Subpart FFFF for process wastewater, the wastewater treatment tanks 19-V-131, 19-V668, 19-V-1311A, and 19-V-1311B shall reduce HAP concentration within the stream to meet the required mass removal specified in §63.138(f) or to 50 ppmw before discharging wastewater for further processing.	ADEM Admin. Code r. 335-3-11-.06(83)
8. The thermal oxidizer burner temperature, scrubber pH, and scrubber flow rate shall be maintained at or above the minimum levels set during the most recent performance test showing compliance.	ADEM Admin. Code r. 335-3-11-.06(83)
9. As stated in §63.2480 and Table 6 of 40 CFR Part 63, Subpart FFFF, a leak detection and repair (LDAR) program equivalent to the requirements of 40 CFR Part 63, Subpart H shall be followed for all applicable equipment in organic HAP service.	ADEM Admin. Code r. 335-3-11-.06(83)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Compliance with the opacity requirements in this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-1-.05
2. Compliance with the particulate matter (PM) emission rate shall be determined by Reference Method 5 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-1-.05

Specialty Polymers Unit, Area 19 Provisos

Federally Enforceable Provisos	Regulations
3. Compliance with the opacity and particulate matter (PM) emission rate for emission points 19-EP-01, 19-EP-05, 19-EP-18, 19-EP-20, 19-EP-27, and 19-EP-28 shall be indicated by a continuous parameter monitoring system (CPMS) on the baghouses. The pressure drop of each of the baghouses shall be monitored to indicate compliance. When the CPMS system is down, visual inspections of the source(s) shall be utilized to indicate compliance.	ADEM Admin. Code r. 335-3-1-.05
4. Compliance with the opacity and particulate matter (PM) emission rate for emission points 19-EP-17 and 19-EP-33 shall be indicated by performing visual inspection(s) of the source.	ADEM Admin. Code r. 335-3-14-.04
5. Compliance with the organic hazardous air pollutant (HAP) and/or the total organic carbon (TOC) emission rate shall be determined by Reference Method 18, 25, or 25A in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.	ADEM Admin. Code r. 335-3-11-06(83)
6. Compliance with the organic hazardous air pollutant (HAP) emission rate shall be indicated by a continuous parameter monitoring system (CPMS) on the thermal oxidizer and scrubber. The firebox temperature, scrubber pH, and scrubber flow rate shall be monitored to indicate compliance.	ADEM Admin. Code r. 335-3-1-.05
7. The test methods and procedures for process vents as listed in §63.2450(g) of 40 CFR Part 63, Subpart FFFF shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(83)
8. The test methods and procedures for the leak detection and repair (LDAR) program as listed in §63.180 of 40 CFR Part 63, Subpart H shall be followed, as applicable.	ADEM Admin. Code r. 335-3-11-.06(7)

Specialty Polymers Unit, Area 19 Provisos

Federally Enforceable Provisos

Regulations

Emission Monitoring

<p>1. The differential pressure across the baghouse filters for 19-EP-01, 19-EP-05, 19-EP-18, 19-EP-20, 19-EP-27, and 19-EP-28 shall be monitored while the equipment associated with these sources is in operation. A significant increase or decrease in pressure (99% of the instruments range) indicates potential failure in the primary baghouse filter. The facility shall initiate corrective action within 24 hours. The facility may choose to inspect these emission points for the presence of visible emissions on days when one of the continuous parameter monitoring systems' (CPMS) components are malfunctioning. If any visible emissions are observed from these points, either during inspections or any other time, the facility shall initiate corrective action within 24 hours.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>2. Visual inspections of the packaging area, 19-EP-17, shall be performed on a weekly basis while the unit is in operation. If any visible emissions are noted, the facility shall initiate corrective action within 24 hours.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. When the emissions from the batch process vents are routed to the thermal oxidizer with scrubber for control, the burner temperature, scrubber flow rate, and scrubber pH shall be continuously monitored. The parameters shall be recorded at least once every 15 minutes and shall be averaged over a 1-hour period by devices that are properly installed, operated, and maintained.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>
<p>4. The flare shall meet the performance requirements listed in §63.11(b).</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>
<p>5. The flare shall be equipped with a device capable of continuously monitoring the pilot light to ensure the flame is on during operation.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>
<p>6. A flow indicator shall be installed on the flare, EP-33, and shall operate according to the manufacturer's specifications. This indicator shall provide a record of the vent stream flow rate to the flare at least once per hour when the process vents are routed to the flare.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>

Specialty Polymers Unit, Area 19 Provisos

Federally Enforceable Provisos	Regulations
<p>7. Each batch of wastewater treated in tanks 19-V-131, 19-V-668, 19-V-1331A, and 19-V1331B shall be sampled to ensure the required mass removal rate of HAP is met as specified in §63.138(f). Alternatively, the HAP may be reduced to equal to or less than 50 parts per million by weight (ppmw) before discharging the wastewater for further treatment. If the concentration is found to be above the required level, the batch shall continue to be treated in these tanks until the concentration meets the required mass removal.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83)</p>
<p>8. The monitoring requirements of the leak detection and repair (LDAR) program of 40 CFR Part 63, Subpart H, as listed in §63.160 through §63.183 shall be followed, as applicable.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83)</p>
<p><i>Recordkeeping and Reporting Requirements</i></p>	
<p>1. When indicating compliance with the particulate matter (PM) limitations using a continuous parameter monitoring system (CPMS), the differential pressure measurements for emission points 19-EP-01, 19-EP-05, 19-EP-17, 19-EP-18, 19-EP-20, 19-EP-27, and 19-EP-28 shall be recorded and maintained in a form suitable for inspection for a period of five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>2. When indicating compliance with the particulate matter (PM) emission limitations using visual inspections for emission points 19-EP-01, 19-EP-05, 19-EP-17, 19-EP-18, 19-EP-20, 19-EP-27, and 19-EP-28, the records of the inspections shall be recorded and maintained in a form suitable for inspection for a period of five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. While the flare is receiving process vent emissions, the records of the presence of the flare pilot light and vent flow rate shall be recorded and maintained in a form suitable for inspection for a period of five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>
<p>4. The recordkeeping and reporting requirements of 40 CFR Part 63, Subpart H, as listed in §63.181 and §63.182 shall be followed, as applicable.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83)</p>

Specialty Polymers Unit, Area 19 Provisos

Federally Enforceable Provisos	Regulations
<p>5. The scrubber water flow rate and pH of the tail gas scrubber (19-EP-35) shall be recorded and maintained in a form suitable for inspection for a period of five (5) years. If at any time, the parameters do not meet the minimum levels and the Specialty Polymers unit is operating and emissions are routed to the thermal oxidizer, it shall be recorded and reported in the semiannual compliance report.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>
<p>6. The burner temperature of the thermal oxidizer (19-EP-35) shall be recorded and maintained in a form suitable for inspection for a period of five (5) years. If at any time, the parameters do not meet the minimum levels and the Specialty Polymers unit is operating and emissions are routed to the thermal oxidizer, it shall be recorded and reported in the semiannual compliance report.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>
<p>7. Production rates of the unit shall be recorded and maintained in a form suitable for inspection for a period of five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>8. The wastewater analysis results, wastewater volumes, and calculations performed for the wastewater tanks 19-V-131, 19-V-668, 19-V-1331A, and 19-V-1331B shall be recorded and maintained in a form suitable for inspection for a period of five (5) years.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(83) 335-3-14-.04</p>

Electrical Insulating Materials Production

Informational Summary

Description: Electrical Insulating Materials Production Unit

Emission Unit: 004

This unit contains equipment that is subject to the following NSPS's, NESHAP's, or MACT's:

40 CFR Part 63, Subpart FFFF

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
12EIM-EP-04	Process Vent Scrubber	VOC	1.10 lb/hr and 4.82 TPY	335-3-14-.04
12EIM-EP-02	Baghouse	PM	0.03 lb/hr	335-3-14-.04
12EIM-EP-02 and 12EIM-EP-04	See Above	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity of greater than 40%	335-3-4-.01
12EIM-EP-02 and 12EIM-EP-04	See Above	PM	$E=3.59P^{0.62}$	335-3-4-.04
	EIM Unit	HAP	HON, Subpart H LDAR Program	335-3-11-.06(7) 335-3-11-.06(83)

Electrical Insulating Materials Production Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Control of Particulate Emissions: Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. This source is subject to the requirements of 40 CFR Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (“MON”).	ADEM Admin. Code r. 335-3-11-.06(83)
4. This source is subject to the requirements of 40 CFR Part 63, Subpart A, the General Provisions, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.	ADEM Admin. Code r. 335-3-11-.06(1)
5. This source is subject to synthetic minor PSD emission limitations.	ADEM Admin. Code r. 335-3-14-.04
<i>Emission Standards</i>	
1. Any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. The filter charging station shall be routed to the baghouse associated with this unit during the solids charging portion of the process.	ADEM Admin. Code r. 335-3-14-.04
3. The particulate matter (PM) emissions from the baghouse associated with this unit shall not exceed 0.03 lb/hr as determined based on a 3-hour average.	ADEM Admin. Code r. 335-3-14-.04
4. The moveable reactors shall be routed to the scrubber associated with this unit during the mixing, packaging, and cleaning portions of the process.	ADEM Admin. Code r. 335-3-11-.06(83)
5. The volatile organic compound (VOC) emission rate from the process vent scrubber (12EIM-EP-04) shall not exceed 1.10 lb/hr based on a 3-hour average and 4.82 tons per year (TPY).	ADEM Admin. Code r. 335-3-14-.04

Electrical Insulating Materials Production Provisos

Federally Enforceable Provisos	Regulations
<p>6. As stated in §63.2480 and Table 6 of 40 CFR Part 63, Subpart FFFF, a leak detection and repair (LDAR) program equivalent to the requirements of 40 CFR Part 63, Subpart H shall be followed for all applicable equipment in organic HAP service.</p>	<p>ADEM Admin. Code r. 335-3-11-.03(83)</p>
<p><i>Compliance and Performance Test Methods and Procedures</i></p>	
<p>1. Compliance with the opacity requirements in this unit shall be determined by Reference Method 9 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>2. Compliance with the particulate matter (PM) emission rate shall be determined by Reference Method 5 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>3. Compliance with the volatile organic compound (VOC) emission rate shall be determined by Reference Method 18, 25, or 25A in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>4. Compliance with the hazardous air pollutant (HAP) emission rate shall be determined by Reference Method 18 in Appendix A of 40 CFR Part 60. Alternate test methods may be used provided prior approval by the Department is granted.</p>	<p>ADEM Admin. Code r. 335-3-1-.05</p>
<p>5. The test methods and procedures for the leak detection and repair (LDAR) program as listed in §63.180 of 40 CFR Part 63, Subpart H shall be followed, as applicable.</p>	<p>ADEM Admin. Code r. 335-3-11-.06(7)</p>
<p><i>Emission Monitoring</i></p>	
<p>1. Visual inspection of the baghouse (12EIM-EP-02) shall be performed at least once per calendar week while the equipment associated with this point is in operation. If visible emissions are observed during the inspection, corrective action shall be taken immediately upon discovery or a visual determination of opacity shall be performed using Reference Method 9 in Appendix A of 40 CFR Part 60. If the visual determination of opacity confirms that the source is discharging opacity and/or particulate emissions above the limits specified in Emission Standard 1 and/or 3, corrective action shall be initiated within twelve (12) hours of discovery.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>

Electrical Insulating Materials Production Provisos

Federally Enforceable Provisos	Regulations
<p>2. When the EIM Unit, Area 12 is operating, and the Area 19 Process Vapor Control System is venting to the thermal oxidizer, the facility shall monitor the burner temperature, scrubber flow rate, and scrubber pH of the thermal oxidizer and tail-gas scrubber as specified in the Area 19 Specialty Polymers Unit.</p>	ADEM Admin. Code r. 335-3-14-.04
<p>3. A vent flow indicator shall be installed at the flare and shall operate according to the manufacturer's specifications when the Area 19 Process Vapor Control System is venting to the flare.</p>	ADEM Admin. Code r. 335-3-16-.05
<p>4. The monitoring requirements of the leak detection and repair (LDAR) program of 40 CFR Part 63, Subpart H, as listed in §63.160 through §63.183 shall be followed, as applicable.</p>	ADEM Admin. Code r. 335-3-11-.03(83)
<i>Recordkeeping and Reporting Requirements</i>	
<p>1. The visual inspections of the baghouse (12EIM-EP-02) shall be recorded and maintained in a form suitable for inspection for a period of five (5) years. The presence of any visible emissions shall be recorded and reported during the semiannual report. Any corrective action(s) taken as a result of the visual inspections shall be included in the records.</p>	ADEM Admin. Code r. 335-3-14-.04
<p>2. The facility shall maintain records of the burner temperature, water flow to the scrubber, and pH of the scrubber effluent for the thermal oxidizer and the tail-gas scrubber associated with Area 19 when the Area 19 Process Vapor Control System is venting to the thermal oxidizer.</p>	ADEM Admin. Code r. 335-3-14-.04
<p>3. When the Area 19 Process Vapor Control System is venting to the flare, the flow indicator shall be used to provide a record of the vent stream flow to the flare at least once per hour. Records shall be maintained for a minimum of five years following the date of the recorded information.</p>	ADEM Admin. Code r. 335-3-14-.04
<p>4. The facility shall maintain records of any time that the EIM Unit, Area 12 is in operation and the Area 19 Process Vapor Control System is not operating. The records shall consist of the time, duration, and cause of the outage, as well as the corrective action taken. The occurrence of such an event shall be reported during the semi-annual report. The records shall be kept in a form suitable for inspection for five years.</p>	ADEM Admin. Code r. 335-3-14-.04
<p>5. The recordkeeping and reporting requirements of 40 CFR Part 63, Subpart H, as listed in §63.181 and §63.182 shall be followed, as applicable.</p>	ADEM Admin. Code r. 335-3-11-.03(83)

VOC Storage Tanks

Informational Summary

Description: Storage tanks that are subject to regulation other than state.

Emission Unit: 005

This unit contains equipment that is subject to the following NSPS's, NESHAP's, or MACT's:

40 CFR Part 60, Subpart Kb
40 CFR Part 63, Subpart FFFF

Pollutants Emitted

Tank No.	Tank Size (gallons)	Material In Tank	Maximum Vapor Pressure (psia)	Control Technique	Standard
12-V-3600	50,000	ECH	N/A	N/A	335-3-10-.02(9)(b)
19-V-805	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-807	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-808	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-809	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-812	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-813	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-814	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-815	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-816	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-817	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-829	17,440	VOC	<3.57	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-828	17,500	VOC	<1.79	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-831	17,500	VOC	<1.79	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-833	17,500	VOC	<1.79	Vent to Area 19 Process Vapor Control System	335-3-14-.01

Tank No.	Tank Size (gallons)	Material In Tank	Maximum Vapor Pressure (psia)	Control Technique	Standard
19-V-830	17,500	DY-025	N/A	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-832	17,500	VOC	<0.963	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-811	17,500	VOC	N/A	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-834	17,440	VOC	<0.963	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-826	15,000	VOC	<0.11	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-827	15,000	VOC	<0.11	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-818	14,902	VOC	<5.50	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-819	15,000	VOC	<5.50	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-820	15,000	VOC	<5.50	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-821	15,000	VOC	<5.50	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-822	15,000	VOC	<5.50	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-824	27,345	VOC	N/A	Vent to Area 19 Process Vapor Control System	335-3-11-.06(83)
19-V-823	27,345	VOC	N/A	Vent to Area 19 Process Vapor Control System	335-3-11-.06(83)
19-V-810	17,400	O-Cresol, Isophorone Diamine, and Polyaminoamide	N/A	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-995	500,000	VOC	N/A	N/A	335-3-10-.02(9)(b)
19-V-996	500,000	VOC	N/A	N/A	335-3-10-.02(9)(b)
19-V-800	17,500	Molten MDA	N/A	Vent to Area 19 Process Vapor Control System	335-3-14-.01
19-V-837	10,571	Allyl Chloride	N/A	Vent to Area 19 Process Vapor Control System	335-3-14-.01

VOC Storage Tanks Provisos

Federally Enforceable Provisos

Regulations

Applicability

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| <p>1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, Major Source Operating Permits.</p> | <p>ADEM Admin. Code r. 335-3-16-.03</p> |
| <p>2. The following tanks are subject to 40 CFR Part 60, Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984:</p> <p style="margin-left: 40px;">12-V-3600 19-V-995 19-V-996</p> | <p>ADEM Admin. Code r. 335-3-10-.02(9)(b)</p> |
| <p>3. The following tanks are subject to 40 CFR Part 63, Subpart FFFF – National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing:</p> <p style="margin-left: 40px;">19-V-823 19-V-824</p> | <p>ADEM Admin. Code r. 335-3-11-.06(83)</p> |
| <p>4. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Kb.</p> | <p>ADEM Admin. Code r. 335-3-10-.02(1)</p> |
| <p>5. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart FFFF.</p> | <p>ADEM Admin. Code r. 335-3-11-.06(1)</p> |
| <p>6. This source is subject to synthetic minor PSD emission limitations.</p> | <p>ADEM Admin. Code r. 335-3-14-.04</p> |

Emission Standards

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| <p>1. The following tanks shall be routed to the Area 19 Process Vapor Control System:</p> <p style="margin-left: 40px;">19-V-805 19-V-829 19-V-818
 19-V-807 19-V-828 19-V-819
 19-V-808 19-V-831 19-V-820
 19-V-809 19-V-833 19-V-821
 19-V-812 19-V-830 19-V-822
 19-V-813 19-V-832 19-V-824
 19-V-814 19-V-811 19-V-823
 19-V-815 19-V-834 19-V-810
 19-V-816 19-V-826 19-V-800
 19-V-817 19-V-827 19-V-837</p> | <p>ADEM Admin. Code r. 335-3-14-.04</p> |
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VOC Storage Tanks Provisos

Federally Enforceable Provisos

Regulations

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| <p>2. The following tanks shall only store material with a vapor pressure below 3.57 psia:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>19-V-805</td> <td>19-V-812</td> <td>19-V-816</td> </tr> <tr> <td>19-V-807</td> <td>19-V-813</td> <td>19-V-817</td> </tr> <tr> <td>19-V-808</td> <td>19-V-814</td> <td>19-V-829</td> </tr> <tr> <td>19-V-809</td> <td>19-V-815</td> <td></td> </tr> </table> | 19-V-805 | 19-V-812 | 19-V-816 | 19-V-807 | 19-V-813 | 19-V-817 | 19-V-808 | 19-V-814 | 19-V-829 | 19-V-809 | 19-V-815 | | <p>ADEM Admin. Code r.
335-3-14-.04</p> |
| 19-V-805 | 19-V-812 | 19-V-816 | | | | | | | | | | | |
| 19-V-807 | 19-V-813 | 19-V-817 | | | | | | | | | | | |
| 19-V-808 | 19-V-814 | 19-V-829 | | | | | | | | | | | |
| 19-V-809 | 19-V-815 | | | | | | | | | | | | |
| <p>3. The following tanks shall only store material with a vapor pressure below 1.79 psia:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>19-V-828</td> <td>19-V-831</td> <td>19-V-833</td> </tr> </table> | 19-V-828 | 19-V-831 | 19-V-833 | <p>ADEM Admin. Code r.
335-3-14-.04</p> | | | | | | | | | |
| 19-V-828 | 19-V-831 | 19-V-833 | | | | | | | | | | | |
| <p>4. The following tanks shall only store material with a vapor pressure below 0.963 psia:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>19-V-832</td> <td>19-V-834</td> </tr> </table> | 19-V-832 | 19-V-834 | <p>ADEM Admin. Code r.
335-3-14-.04</p> | | | | | | | | | | |
| 19-V-832 | 19-V-834 | | | | | | | | | | | | |
| <p>5. The following tanks shall only store material with a vapor pressure below 0.11 psia:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>19-V-826</td> <td>19-V-827</td> </tr> </table> | 19-V-826 | 19-V-827 | <p>ADEM Admin. Code r.
335-3-14-.04</p> | | | | | | | | | | |
| 19-V-826 | 19-V-827 | | | | | | | | | | | | |
| <p>6. The following tanks shall only store material with a vapor pressure below 5.50 psia:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>19-V-818</td> <td>19-V-820</td> <td>19-V-822</td> </tr> <tr> <td>19-V-819</td> <td>19-V-821</td> <td></td> </tr> </table> | 19-V-818 | 19-V-820 | 19-V-822 | 19-V-819 | 19-V-821 | | <p>ADEM Admin. Code r.
335-3-14-.04</p> | | | | | | |
| 19-V-818 | 19-V-820 | 19-V-822 | | | | | | | | | | | |
| 19-V-819 | 19-V-821 | | | | | | | | | | | | |

Compliance and Performance Test Methods and Procedures

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| <p>1. The vapor pressure of the material stored in the storage vessels subject to 40 CFR Part 60, Subpart Kb shall be determined as specified in §60.116b.</p> | <p>ADEM Admin. Code r.
335-3-10-.02(9)(b)</p> |
| <p>2. The maximum true vapor pressure of the material stored in the storage vessels subject to 40 CFR Part 63, Subpart FFFF shall be determined as specified in §63.2550.</p> | <p>ADEM Admin. Code r.
335-3-11-.06(83)</p> |

Emission Monitoring

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| <p>1. The monitoring requirements of §60.116b of 40 CFR Part 60, Subpart Kb shall be followed, as applicable.</p> | <p>ADEM Admin. Code r.
335-3-10-.02(9)(b)</p> |
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VOC Storage Tanks Provisos

Federally Enforceable Provisos

Regulations

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| 2. The monitoring requirements of §63.2470 of 40 CFR Part 63, Subpart FFFF shall be followed as applicable. | ADEM Admin. Code r.
335-3-11-.06(83) |
| 3. When the tank emissions are routed to the thermal oxidizer with scrubber for control, the burner temperature, scrubber flow rate, and scrubber pH shall be continuously monitored. The parameters shall be recorded at least once every 15 minutes and shall be averaged over a 1-hour period by devices that are properly installed, operated, and maintained. | ADEM Admin. Code r.
335-3-11-.06(83)
335-3-14-.04 |
| 4. The flare shall meet the performance requirements listed in §63.11(b). | ADEM Admin. Code r.
335-3-11-.06(83)
335-3-14-.04 |
| 5. When the tank emissions are routed to the flare for control, the facility shall utilize a device capable of continuously monitoring the pilot light to ensure the flame is on during operation. | ADEM Admin. Code r.
335-3-11-.06(83)
335-3-14-.04 |

Recordkeeping and Reporting Requirements

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| 1. Records of the dimensions and an analysis showing the capacity of the following tanks shall be maintained for the life of the source:

<div style="display: flex; justify-content: space-around; margin-left: 40px;"> 12-V-3600 19-V-995 19-V-996 </div> | ADEM Admin. Code r.
335-3-10-.02(9)(b) |
| 2. Records of the material stored and the maximum true vapor pressure of the material at storage temperature shall be maintained for the following tanks:

<div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-805 19-V-816 19-V-827 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-807 19-V-817 19-V-818 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-808 19-V-829 19-V-819 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-809 19-V-828 19-V-820 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-812 19-V-831 19-V-821 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-813 19-V-833 19-V-822 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-814 19-V-830 19-V-834 </div> <div style="display: flex; justify-content: space-around; margin-left: 40px;"> 19-V-815 19-V-826 </div> | ADEM Admin. Code r.
335-3-14-.04 |

For tanks storing blends, records of the maximum true vapor pressure of the component in the mixture with the highest vapor pressure may be kept instead of the maximum true vapor pressure of the blend.

VOC Storage Tanks Provisos

Federally Enforceable Provisos

Regulations

3. Records of the total annual throughput volumes for the material stored in the following tanks shall be maintained in a form suitable for inspection for a period of five (5) years.

19-V-805	19-V-816	19-V-818
19-V-807	19-V-817	19-V-819
19-V-808	19-V-829	19-V-820
19-V-809	19-V-828	19-V-821
19-V-812	19-V-831	19-V-822
19-V-813	19-V-833	19-V-834
19-V-814	19-V-826	
19-V-815	19-V-827	

4. While the flare is receiving tank emissions, the records of the presence of the flare pilot light and vent flow rate shall be recorded and maintained in a form suitable for inspection for a period of five (5) years. If at any time, the pilot light is absent, it shall be recorded and reported in the semiannual compliance report.

ADEM Admin. Code r.
335-3-11-.06(83)
335-3-14-.04

5. The scrubber water flow rate and pH of the tail gas scrubber (19-EP-35) shall be recorded and maintained in a form suitable for inspection for a period of five (5) years. If at any time, the parameters do not meet the minimum levels and the Specialty Polymers unit is operating and emissions are routed to the thermal oxidizer, it shall be recorded and reported in the semiannual compliance report.

ADEM Admin. Code r.
335-3-11-.06(83)
335-3-14-.04

6. The burner temperature of the thermal oxidizer (19-EP-35) shall be recorded and maintained in a form suitable for inspection for a period of five (5) years. If at any time, the parameters do not meet the minimum levels and the Specialty Polymers unit is operating and emissions are routed to the thermal oxidizer, it shall be recorded and reported in the semiannual compliance report.

ADEM Admin. Code r.
335-3-11-.06(83)
335-3-14-.04

7. The recordkeeping and reporting requirements of §63.2520 and §63.2525 of 40 CFR Part 63, Subpart FFFF shall be followed, as applicable.

ADEM Admin. Code r.
335-3-11-.06(83)

Miscellaneous Sources

Informational Summary

Description: Miscellaneous sources not dedicated to specific production units.

Emission Unit: 006

This unit contains equipment that is subject to the following NSPS's, NESHAP's, or MACT's:

40 CFR Part 60, Subpart IIII
40 CFR Part 63, Subpart ZZZZ

Pollutants Emitted

Emission Point No.	Point Description	Pollutant	Emission Limit	Standard
19-EM-GEN-01	Area 19 Emergency Generator – 1, 204 HP	N/A	No Specific Requirements	335-3-11-.06(103)
12-EM-GEN-02	Data Center Emergency Generator – 364 HP	NMHC + NO _x	4.0 g/KW-hr	335-3-10-.02(87)
12-EM-GEN-02	See Above	CO	3.5 g/KW-hr	335-3-10-.02(87)
12-EM-GEN-02	See Above	PM	0.2 g/KW-hr	335-3-10-.02(87)
All Points	Miscellaneous Sources (Emission Unit: 006)	Opacity	Not more than one 6-minute average opacity greater than 20% in any 60-minute period and no 6-minute average opacity of greater than 40%	335-3-4-.01

Miscellaneous Sources Provisos

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, Major Source Operating Permits.	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, Control of Particulate Emissions: Visible Emissions.	ADEM Admin. Code r. 335-3-4-.01
3. Data Center Emergency Generator – 364 HP (12-EM-GEN-02) is subject to the requirements of 40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.	ADEM Admin. Code r. 335-3-10-.02(87)
4. Data Center Emergency Generator – 364 HP (12-EM-GEN-02) is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart III.	ADEM Admin. Code r. 335-3-10-.02(1)
5. All of the emergency engines (12-EM-GEN-02 and 19-EM-GEN-01) are subject to 40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.	ADEM Admin. Code r. 335-3-11-.06(103)
6. All of the emergency engines (12-EM-GEN-02 and 19-EM-GEN-01) are subject to the requirements of the General Provisions as indicated in 40 CFR Part 63, Subpart A, unless otherwise stated in 40 CFR Part 63, Subpart ZZZZ.	ADEM Admin. Code r. 335-3-11-.06(1)
7. For Data Center Emergency Generator – 364 HP (12-EM-GEN-02) compliance with 40 CFR Part 60, Subpart III shall constitute compliance with 40 CFR Part 63, Subpart ZZZZ.	ADEM Admin. Code r. 335-3-10-.02(87)
<i>Emission Standards</i>	
1. As referenced in §60.4205(b), §89.112(a) states the sum of the non-methane hydrocarbon (NMHC) and nitrogen oxides (NO _x) emission rates from Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall not exceed 4.0 g/KW-hr.	ADEM Admin. Code r. 335-3-10-.02(87)
2. As referenced in §60.4205(b), §89.112(a) states the carbon monoxide (CO) emission rate from Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall not exceed 3.5 g/KW-hr.	ADEM Admin. Code r. 335-3-10-.02(87)

Miscellaneous Sources Provisos

Federally Enforceable Provisos

Regulations

- | Federally Enforceable Provisos | Regulations |
|---|---|
| 3. As referenced in §60.4205(b), §89.112(a) states the particulate matter (PM) emission rate from Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall not exceed 0.2 g/KW-hr. | ADEM Admin. Code r. 335-3-10-.02(87) |
| 4. Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall be fueled by diesel fuel that meets the requirements of §80.510(b). | ADEM Admin. Code r. 335-3-10-.02(87) & 335-3-11-06(103) |
| 5. Any source of particulate emissions shall not discharge into the atmosphere, particulate of an opacity greater than twenty percent (20%), as determined by a six-minute average, except for one six (6) minute period in any sixty (60) minute period of not greater than forty percent (40%). | ADEM Admin. Code r. 335-3-4-.01 |

Compliance and Performance Test Methods and Procedures

- | | |
|---|--|
| 1. Compliance with the opacity standard shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR 60. Alternate test methods may be used provided prior approval by the Department is granted. | ADEM Admin. Code r. 335-3-10-.03 |
| 2. In accordance with §60.4211(a), Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall meet the following requirements, except as permitted under §60.4211(g): | ADEM Admin. Code r. 335-3-10-.02(87) & 335-3-11-.06(103) |
| (a) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission related written instructions; | |
| (b) Change only those emission-related settings that are permitted by the manufacturer; and | |
| (c) Meet the requirements of 40 CFR Part 89, 94, and/or 1068, as applicable. | |
| 3. To indicate compliance with §60.4205(b), Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall be certified for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission related specifications, except as permitted in §60.4211(g). | ADEM Admin. Code r. 335-3-10-.02(87) & 335-3-11-.06(103) |

Miscellaneous Sources Provisos

Federally Enforceable Provisos

4. In accordance with §60.4211(f) and §63.6640(f), for Data Center Emergency Generator (12-EM-GEN-02) and Area 19 Emergency Generator (19-EM-GEN-01) to remain classified as an emergency engine, the engines shall only operate as specified below:

- (a) Emergency situations.
- (b) Maintenance checks and readiness testing not to exceed 100 hours per year.
- (c) Non-emergency situations, not to exceed 50 hours per year (these 50 hours count toward the 100 hours per year allowed for maintenance checks and readiness testing). The 50 hours per year for non-emergency situation cannot be used for peak shaving or to generate income for the facility to supply power to an electric grid or otherwise supply power to as part of a financial arrangement with another entity.

Emission Monitoring

1. Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall have a non-resettable hour meter installed.

Recordkeeping and Reporting Requirements

1. The facility shall keep records of the operation of Data Center Emergency Generator – 364 HP (12-EM-GEN-02) in emergency and non-emergency service, which is recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time. These records shall be retained onsite for inspection purposed for a period of at least five (5) years.

2. Records of maintenance conducted on Data Center Emergency Generator – 364 HP (12-EM-GEN-02) shall be retained onsite for inspection purposes for a period of at least five (5) years.

Regulations

ADEM Admin. Code r.
335-3-10-.02(87) &
335-3-11-.06(103)

**APPENDIX A
(CAM)**

Compliance Assurance Monitoring Requirements

CAM Plan for BLR Baghouse (12BLR-EP-01)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 10 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for BLR Baghouse (12BLR-EP-02)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 10 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for BLR Baghouse (12BLR-EP-03)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 10 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for BLR Baghouse (12BLR-EP-04S)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 10 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for BLR Baghouse (12BLR-EP-04E)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 10 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for Area 19 Baghouse (19-EP-01)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 30 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for Area 19 Baghouse (19-EP-05)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 30 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for Area 19 Baghouse (19-EP-18)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 10 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for Area 19 Baghouse (19-EP-20)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 30 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for Area 19 Baghouse (19-EP-27)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 5 pounds per square inch	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A

CAM Plan for Area 19 Baghouse (19-EP-28)

	Indicator No. 1	Indicator No. 2
I. Indicator	Differential Pressure	N/A
Measurement Approach	Automated Monitoring	N/A
II. Indicator Range	0 to 30 inches water column	N/A
III. Performance Criteria		
A. Representative Data	Differential pressure being measured across police filter in discharge line of control device.	N/A
B. Verification of Operational Status	The measuring device will be monitored for operational status by the process computer.	N/A
C. QA/QC Practices and Criteria	The differential pressure cell will be maintained under the critical instrument maintenance program implemented for the site's critical instruments.	N/A
D. Monitoring Frequency	A measurement will be monitored continuously and recorded a minimum of once every 15 minutes.	N/A
Data Collection Procedures	Computer monitoring of differential pressure recorded a minimum of once every 15 minutes.	N/A
Averaging Period	1 hour average of 15 minute periods	N/A